MICROH
PROFESSIONAL PRODUCTS
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USER MANUAL

RIO ELEMENT 518MKII

Keep this manual for future reference.

1. INTRODUCTION AND UNPACKING

Thank you for purchasing the MICROH RIO ELEMENT 518MKII wash fixture. For your own safety and knowledge, please read this manual before installing or operating the device. This manual covers the important information on installation and applications. Please install and operate the fixture according to instructions. Meanwhile, please keep this manual for future reference.

The MICROH RIO ELEMENT 518MKII wash fixture is made of a new type of high temperature cast aluminum casing. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. This fixture is applicable but not limited to large-scale live performances, theater, studio, nightclubs and discos.

The MICROH RIO ELEMENT 518MKII wash fixture uses 12 powerful 5W QUAD (4in1) LED's which feature high brightness and stability. Please carefully unpack it when you receive the fixture and check if it was damaged during the transportation. Please check whether the following items are included inside the box:

Fixture – One Safety Cable – One User Manual - One

2. SAFTEY INSTRUCTIONS

This device has left the factory in perfect condition. In order to maintain this condition and to ensure safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

Important:
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature, and is dry.

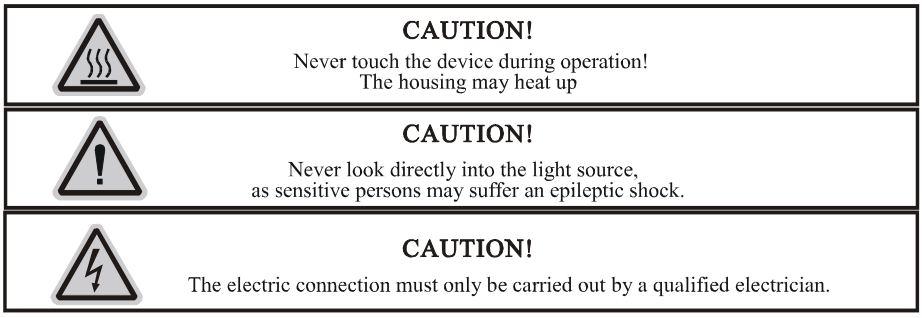
This device falls under protection-class I, therefore it is essential that the device be grounded. The electrical connection must be carried out by a qualified technician.

The device should only be used with rated voltage and frequency. Make sure that the available voltage is not higher than 120V as stated at the end of this manual.

Make sure the power cord is never crimped or damaged in any way, as this could cause shock and damage. If your power cord is damaged in any way, please purchase a new cable from your local MICROH dealer. Always disconnect power, when the device is not in use or before cleaning it. Never pull out the plug by tugging the power cord.

During initial start-up, some smoke or smell may arise. This is a normal process, and does not necessarily mean that the device is defective. It should decrease gradually. Please do not project the beam onto combustible substances.

Fixtures cannot be installed on or near combustible substances. Keep more than 50cm distance from wall for proper ventilation and air flow. If your fixture is or has become damaged in any way, it shall be exclusively replaced or repaired by the manufacturer to avoid any hazard.


CAUTION!
Never touch the device during operation!
The housing may heat up
CAUTION!
Never look directly into the light source,
as sensitive persons may suffer an epileptic shock.
CAUTION!
The electric connection must only be carried out by a qualified electrician.

2. MOUNTING AND INSTALLATION

Caution: For added protection, mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. Never stand directly below the device when mounting, removing, or servicing the fixture.

Whether installing inverted on a truss / ceiling or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft.) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting Points: Overhead mounting requires extensive experience, including calculating working load limits. A knowledge of the installation material being used and periodic safety inspection of all installation material and the fixture are all imperative and should only be performed by a qualified technician. Improper installation can result in bodily injury and damage.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

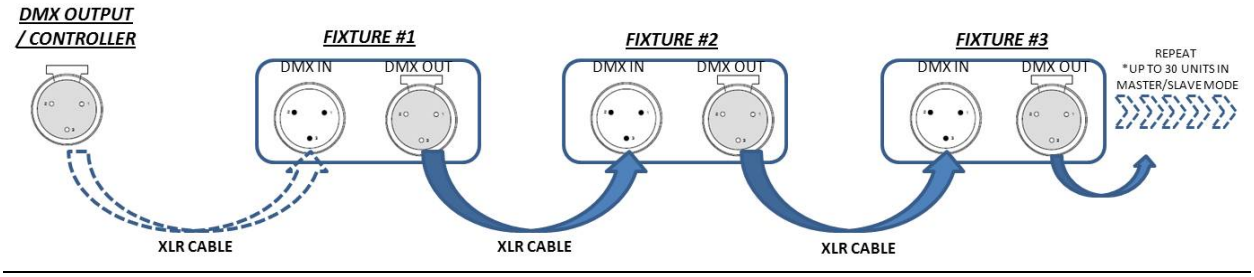
Floor Mounting: Set the 2 brackets at your desired angle and aim your fixture accordingly. Please see diagram below.

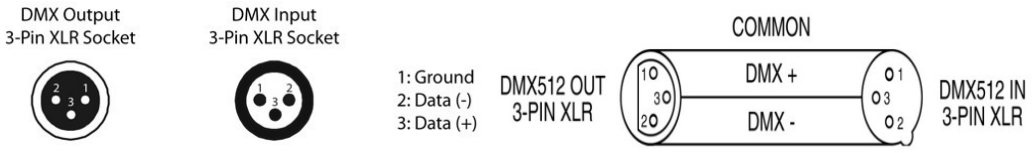
Clamp Mounting: The MICROH RIO ELEMENT 518MKII provides a unique mounting bracket assembly that integrates 2 brackets to be used to mount on a truss or the floor. When mounting this fixture to truss, be sure to secure an appropriately rated clamp to the included bracket fitted through the center hole. As an added safety measure, be sure to attach at least one properly rated safety cable to the fixture.

Regardless of the rigging option you choose for your MICROH RIO ELEMENT 518MKII wash fixture, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

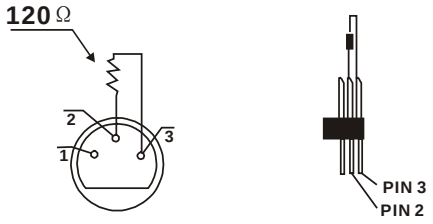
5. DMX-512 CONTROL CONNECTIONS

This fixture complies with international USITT DMX standards and can be used with either a 3 pin or 5 pin DMX connector. Plug in the provided 3 pin XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the LED SLIM12 QUAD. To connect the units to DMX, you must daisy chain the fixtures together as referred in the diagram below. Always end your DMX-512 connection with a DMX terminator.





For installations where the DMX cable has to run a long distance, or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



6. SETUP MENU

Main Menu	Value	Functions
d001	001-511	5 channels mode
A001	001-511	9 channels mode
cF.50	01-99	Fade scroll
CC50	01-99	Snap scroll
c5.50	01-99	1-9:Red,11-19:Green,21-29:Blue,31-39:White, 41-49:Amber,51-59:Blue+Amber,61-69:Red+Green,71-79: Red+Blue, 81-89: Red+Amber, 91-99: Green+Blue
r000	0-255	Red intensity
9000	0-255	Green intensity
b000	0-255	Blue intensity
E000	0-255	White intensity
y000	0-255	Amber intensity
dEMo	/	Auto run

7. DMX OPERATION MODES

d001 **(5 Channels) R, G, B, W, A**

A001 **(9 Channels) Dimmer, Strobe, R, G, B, W, A, Marco, Fade Scroll**

7. DMX CHANNELS

d001 5 channels mode

Channel	Function	Value
1	R	0-255
2	G	0-255
3	B	0-255
4	W	0-255
5	A	0-255

A008 9 channels mode

Channel	Function		Value
1	Dimmer	Dimmer, OFF/ON	0-255
2	Strobe	No function	0-9
		Slow to fast	10-255
3	R	Red intensity	0-255
4	G	Green intensity	0-255
5	B	Blue intensity	0-255
6	W	White intensity	0-255
7	A	Amber intensity	0-255
8	Marco	No function	0-9
		Red Fade in	10-34
		R+G, Green fade in	35-64
		R+G, Red fade out	65-94
		Green	95-97
		G+B, Blue fade in	98-127
		B+G, Green fade out	128-157

		Blue	158-160
		B+R, Red fade in	161-190
		R+B+G. Green fade in	191-225
		R+G+B +A+W, white and Amber fade in	226-255
9	Fade scroll	Fade in and out	0-255

9. KEY FEATURES

- 18 x 5W Quint LEDs
- 11 Operation Modes
- 3 Pin XLR Input & Output
- DMX Control
- Double Bracket for Truss and Floor Mounting
- 4-Button LED Digital Display (MODE, ENTER, UP, DOWN)

10. TECHNICAL SPECIFICATIONS

MODEL: RIO ELEMENT 518MKII
LAMP: 18 x 5W Quint LEDs
OPERATING TEMPERATURE: -25°C to 45°C
VOLTAGE: 120VAC 60Hz 192W
FUSE: 2A
GROSS WEIGHT: 16 lbs / 8 kg
WARRANTY: 2 Year Limited Warranty

11. MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

1) All screws for installing the device or parts of the device must be tightly connected, and must not be corroded.

2) There must not be any deformations on the housing, colour lenses, fixations or installation spots (ceiling, suspension, trussing).

3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.

4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage must be handled by a skilled installer or technician. Any safety issues must be resolved.

CAUTION
DISCONNECT POWER BEFORE SERVICING.

In order to keep the fixture in good condition and extend the life, we suggest regular cleaning to the fixture.

1) Clean the inside and outside lens each week to avoid the light output from darkening due to accumulation of dust, dirt, etc.

2) Clean the fan each week.

3) A detailed electrical check by approved technician every three months is advised. Ensure the circuit contacts are in good condition.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under “Installation instructions”.

Should you need any spare parts, please order genuine MICROH parts from your local dealer.

IF YOU SHOULD EXPERIENCE ANY PROBLEMS OR ISSUES PLEASE CONTACT MICROH PROFESSIONAL PRODUCTS BY EMAIL AT info@microhpro.com

In the event that your unit is defective in any way, please contact your local dealer to obtain an RA number for service repair.

DISCLAIMER – MICROH believes that the information contained within this user manual is accurate. However, Microh is not responsible for any error or addendums to this manual. If you have any comments or general suggestions on how this manual can be improved please contact info@microhpro.com. Thank you.

NOTES:

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